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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,981	07/11/2003	Yuichiro Yamada	L8462.01108A	2864
7590	06/29/2004			EXAMINER
STEVENS, DAVIS, MILLER & MOSHER, L.L.P. Suite 850 1615 L Street, N.W. Washington, DC 20036			CLARK, JASMINE JHIHAN B	
			ART UNIT	PAPER NUMBER
			2815	

DATE MAILED: 06/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/616,981	YAMADA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jasmine J Clark	2815	

-- The MAILING DATE of this communication appears on the cover sheet with the corresponding address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 08 June 2004.
- 2a) This action is FINAL.                  2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 3, 4 and 9-48 is/are pending in the application.
- 4a) Of the above claim(s) 14-29 and 37-48 is/are withdrawn from consideration.
- 5) Claim(s) 3, 4, 9-13, 30-36 is/are allowed.
- 6) Claim(s) \_\_\_\_\_ is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. 09/972,884.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|   | 6) <input type="checkbox"/> Other: _____                                    |

***Election/Restrictions***

1. Applicant's election with traverse of group I in the reply filed on 06/08/04 is acknowledged. The traversal is on the ground(s) that "MPEP § 803 states: "If the search and examination of an entire application can be made without serious burden, the Examiner must examine it on the merits even though it includes claims to distinct or independent inventions."". This is not found persuasive because the reasons for insisting on restriction as stated in MPEP § 808 have been clearly met.

The requirement is still deemed proper and is therefore made FINAL.

2. It is suggested that Applicants cancel the non elected claims, claims 14-29, 37-48 in response to this Office action.

3. Claims 3, 4, 9-13, 30-36 are objected to because of the following informalities: there are many typographical error in those claims, for example in claim 3, line 2, shows "ar int grally", and in line 11 shows "el ctrode". Appropriate correction is required. (Please see the Preliminary Amendment filed 07/11/03).

***References Cited***

4. Kosaki (US 6,603,190 B2) shows a structure of a semiconductor device (see Figs. 1A-1K) where a semiconductor substrate 1 mounted on a mother board 8. Nakamura et al. (US 6,555,416 B2) shows in Figs. 9A-9K) a semiconductor chip 2 which has a top surface, a rear surface which opposes to the top surface in a parallel

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manner; an acute angle and a recess 7a around the top surface, wherein the semiconductor chip 2 comprises a first electrode 3 formed on the top surface; and a conductive pattern formed in the recess 7a. However, Nakamura fails to teach having a second electrode formed on the rear surface and the conductive pattern formed on an inclined plane and which is for connecting the first electrode and the second electrode. The references of interest are cited : Please also see Yamada et al. (US 6,693,358 B2), Peterson (US 6,432,796 B1), Swiss et al. (US 6,444,499 B1), Corisis (US 6,184,465 B1), Machida et al. (US 4,806,706), Saito et al. (US 6,496,769 B1).

### ***Conclusion***

5. This application is in condition for allowance except for the following formal matters:

Please see the above paragraphs.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

### ***Telephone Inquiry Contacts***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jasmine J Clark whose telephone number is (571) 272-1726. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jjbc/06/23/04

**JASMINE CLARK  
PRIMARY EXAMINER**

